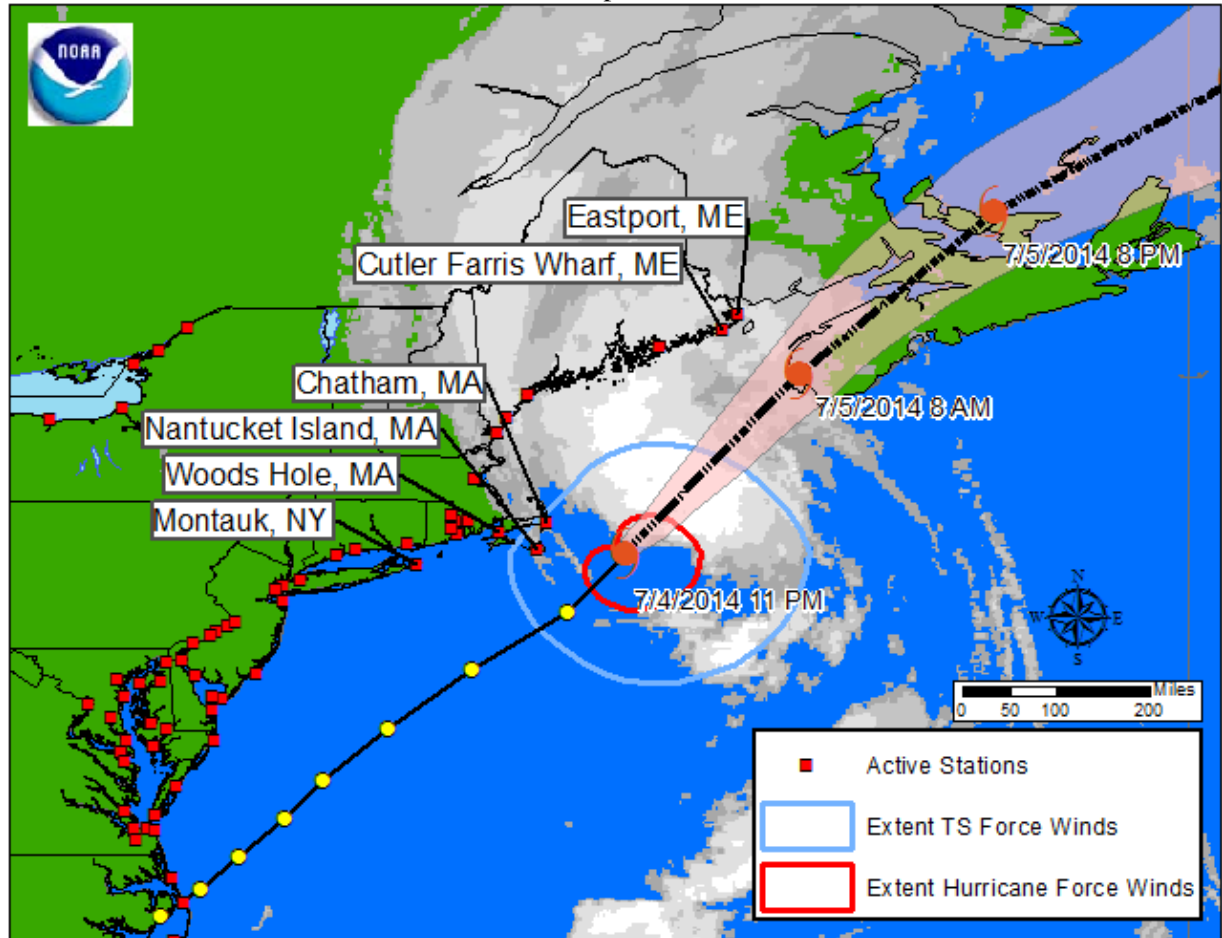




Hurricane ARTHUR QuickLook
Posted: 00:00 EDT 07/05/2014

NOAA and NOAA Partnership Stations Relative to the Storm



Storm Analysis

As of 07/05/2014 00:00 EDT, water levels in the Lower Chesapeake Bay are trending approximately 1.0 foot above tidal predictions. Levels of 1.2 feet above predictions can be seen along the Eastern Shore of Maryland. Wind speeds in Virginia and Maryland continue to range from 10 to 20 knots with some higher gusts.

Arthur is currently passing to the east of Cape Cod, Massachusetts. At this time, water levels are running 1.5 feet above predictions on Nantucket Island and 0.9 feet above predictions in Chatham. Barometric pressure is beginning to increase on Nantucket Island, wind speed is 25 - 30 knots with gusts up to 45 knots.

Water Level and Meteorological plots available below are updated automatically. A line denoting Mean Higher High Water (MHHW) is displayed to provide an approximate indication of when flooding inundation may occur.

For additional data, please see the Center for Operational Oceanographic Products & Services website. For more information or archived products and reports, please see the Storm QuickLook Homepage.

Analyst: TKM

HURRICANE ARTHUR ADVISORY NUMBER 17
NWS NATIONAL HURRICANE CENTER

1100 PM EDT FRI JUL 04 2014

...ARTHUR CONTINUES MOVING QUICKLY NORTHEASTWARD...

...TROPICAL-STORM-FORCE CONDITIONS OCCURRING OVER NANTUCKET...

SUMMARY OF 1100 PM EDT...0300 UTC...INFORMATION

LOCATION...41.2N 68.7W

ABOUT 75 MI...120 KM ESE OF CHATHAM MASSACHUSETTS

ABOUT 225 MI...360 KM SW OF YARMOUTH NOVA SCOTIA

MAXIMUM SUSTAINED WINDS...75 MPH...120 KM/H

PRESENT MOVEMENT...NE OR 45 DEGREES AT 31 MPH...50 KM/H

MINIMUM CENTRAL PRESSURE...976 MB...28.82 INCHES

WATCHES AND WARNINGS

CHANGES WITH THIS ADVISORY...

NONE.

SUMMARY OF WATCHES AND WARNINGS IN EFFECT...

A TROPICAL STORM WARNING IS IN EFFECT FOR...

* NANTUCKET

* CAPE COD FROM PROVINCETOWN TO WOODS HOLE

* NOVA SCOTIA INCLUDING CAPE BRETON ISLAND

* PRINCE EDWARD ISLAND

* NEW BRUNSWICK FROM THE U.S./CANADA BORDER TO GRAND-ANSE

IN ADDITION...HIGH WIND WARNINGS...FOR WINDS IN EXCESS OF 40 MPH... ARE IN EFFECT FOR PORTIONS OF EASTERN MAINE.

FOR STORM INFORMATION SPECIFIC TO YOUR AREA IN THE UNITED STATES...INCLUDING POSSIBLE INLAND WATCHES AND WARNINGS...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE. FOR STORM INFORMATION SPECIFIC TO YOUR AREA OUTSIDE THE UNITED STATES...PLEASE MONITOR PRODUCTS ISSUED BY YOUR NATIONAL METEOROLOGICAL SERVICE.

DISCUSSION AND 48-HOUR OUTLOOK

AT 1100 PM EDT...0300 UTC...THE CENTER OF HURRICANE ARTHUR WAS LOCATED NEAR LATITUDE 41.2 NORTH...LONGITUDE 68.7 WEST. ARTHUR IS MOVING TOWARD THE NORTHEAST NEAR 31 MPH...50 KM/H...AND THIS MOTION IS EXPECTED TO CONTINUE WITH SOME DECREASE IN FORWARD SPEED DURING THE NEXT DAY OR SO. ON THE FORECAST TRACK...THE CENTER OF ARTHUR WILL PASS SOUTHEAST OF NEW ENGLAND TONIGHT...BE NEAR OR OVER WESTERN NOVA SCOTIA EARLY ON SATURDAY...AND OVER THE GULF OF ST. LAWRENCE SATURDAY NIGHT.

MAXIMUM SUSTAINED WINDS HAVE DECREASED TO NEAR 75 MPH...120 KM/H... WITH HIGHER GUSTS. ADDITIONAL WEAKENING IS FORECAST DURING THE NEXT 48 HOURS...AND ARTHUR IS EXPECTED TO BECOME A POST-TROPICAL CYCLONE SATURDAY MORNING.

HURRICANE FORCE WINDS EXTEND OUTWARD UP TO 70 MILES...110 KM...FROM THE CENTER...AND TROPICAL STORM FORCE WINDS EXTEND OUTWARD UP TO 160 MILES...260 KM. NANTUCKET MASSACHUSETTS RECENTLY REPORTED SUSTAINED WINDS OF 49 MPH...80 KM/H...AND A WIND GUST OF 62 MPH... 100 KM/H.

THE ESTIMATED MINIMUM CENTRAL PRESSURE IS 976 MB...28.82 INCHES.

HAZARDS AFFECTING LAND

WIND...TROPICAL STORM CONDITIONS ARE SPREADING ACROSS THE WARNING AREA IN NEW ENGLAND. TROPICAL STORM CONDITIONS ARE EXPECTED TO REACH THE WARNING AREA IN CANADA LATER TONIGHT AND SPREAD NORTHWARD ON SATURDAY. IN ADDITION...WINDS IN EXCESS OF 40 MPH ARE EXPECTED OVER PORTIONS OF EASTERN MAINE ON SATURDAY...BEHIND A COLD FRONT OVERTAKING THE CIRCULATION OF ARTHUR.

STORM SURGE...COASTAL FLOODING IS POSSIBLE ALONG CAPE COD TONIGHT. FOR INFORMATION SPECIFIC TO YOUR AREA...PLEASE SEE PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE OFFICE.

RAINFALL...RAINFALL ACCUMULATIONS OF 2 TO 4 INCHES ARE EXPECTED OVER EASTERN MASSACHUSETTS...COASTAL MAINE...NOVA SCOTIA... NEWFOUNDLAND...AND NEW BRUNSWICK...WITH ISOLATED MAXIMUM AMOUNTS OF 6 INCHES POSSIBLE OVER DOWNEAST MAINE AND INTO NEW BRUNSWICK CANADA.

SURF...SWELLS GENERATED BY ARTHUR ARE AFFECTING PORTIONS OF THE COAST OF NORTH CAROLINA...THE MID-ATLANTIC...AND NORTHEAST UNITED STATES. SWELLS WILL BEGIN AFFECTING PORTIONS OF SOUTHEASTERN CANADA TONIGHT. THESE SWELLS ARE EXPECTED TO CAUSE LIFE-THREATENING SURF AND RIP CURRENTS. FOR MORE INFORMATION...PLEASE MONITOR PRODUCTS ISSUED BY YOUR LOCAL NATIONAL WEATHER SERVICE FORECAST OFFICE.

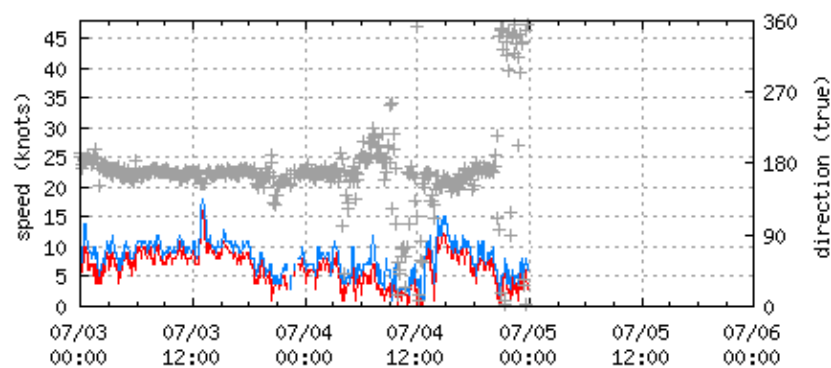
FORECASTER BEVEN

For the purpose of timely release, data contained within this QuickLook have undergone a "limited" NOS Quality Assurance/Control; however, the data have not yet undergone final verification. All data subject to NOS verification.

Jump to: [Eastport - Winds](#), [Eastport - Barometric](#), [Eastport - Air/Water Temp](#), [Cutler Farris Wharf - Water Level](#), [Cutler Farris Wharf - Winds](#), [Cutler Farris Wharf - Barometric](#), [Cutler Farris Wharf - Air/Water Temp](#), [Chatham - Water Level](#), [Chatham - Winds](#), [Nantucket Island - Water Level](#), [Nantucket Island - Winds](#), [Nantucket Island - Barometric](#), [Nantucket Island - Air/Water Temp](#), [Woods Hole - Water Level](#), [Woods Hole - Barometric](#), [Woods Hole - Air/Water Temp](#), [Montauk - Water Level](#), [Montauk - Barometric](#), [Montauk - Air/Water Temp](#)

NOAA/NOS/CO-OPS 8410140 Eastport, ME

Wind Speed / Gusts / Direction



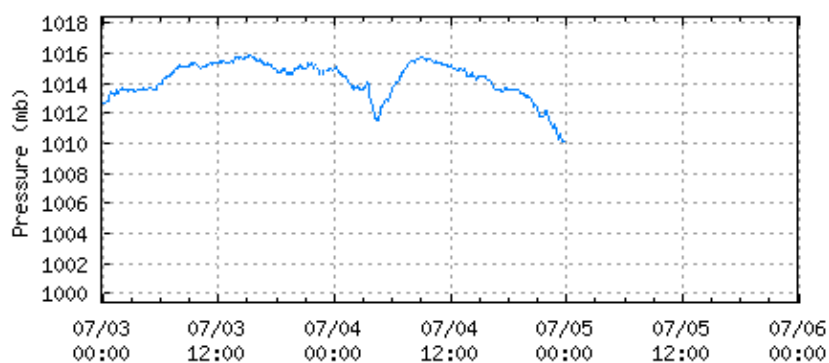
speed — gusts — direction +

Last Observed Sample: 07/04/2014 23:42 (EDT)

Wind Speed: 3 knots Gusts: 6 knots Direction: 354° T

NOAA/NOS/CO-OPS 8410140 Eastport, ME

Barometric Pressure



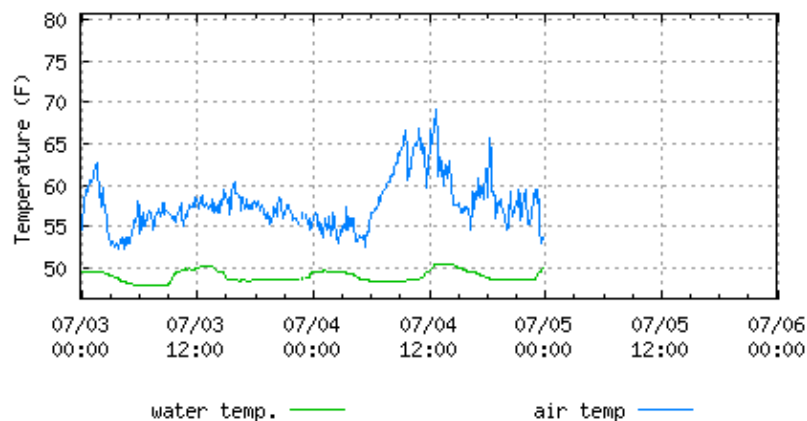
barometric pressure —

Last Observed Sample: 07/04/2014 23:42 (EDT)

Barometric Pressure: 1010.1 mb

NOAA/NOS/CO-OPS 8410140 Eastport, ME

Air / Water Temperature

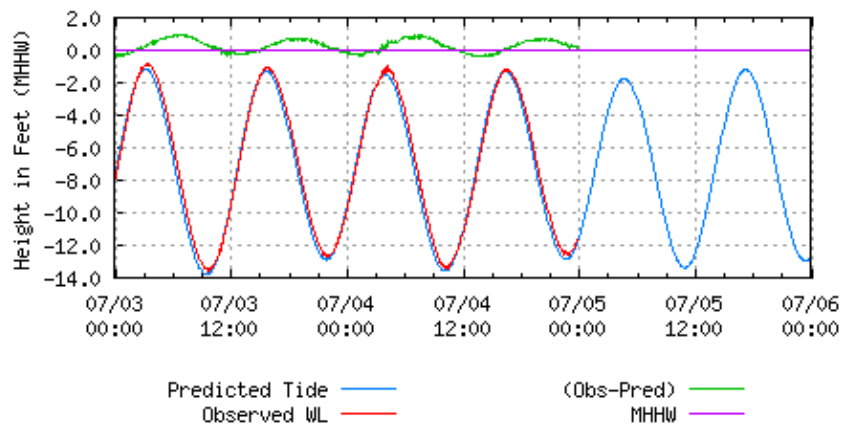


Last Observed Sample: 07/04/2014 23:42 (EDT)

Water Temperature: 50.0° F Air Temperature: 53.8° F

NOAA/NOS/CO-OPS 8411060 Cutler Farris Wharf, ME

Preliminary Water Level, relative to Mean Higher High Water (MHHW)



Last Observed Sample: 07/04/2014 23:48 (EDT). Data relative to MHHW

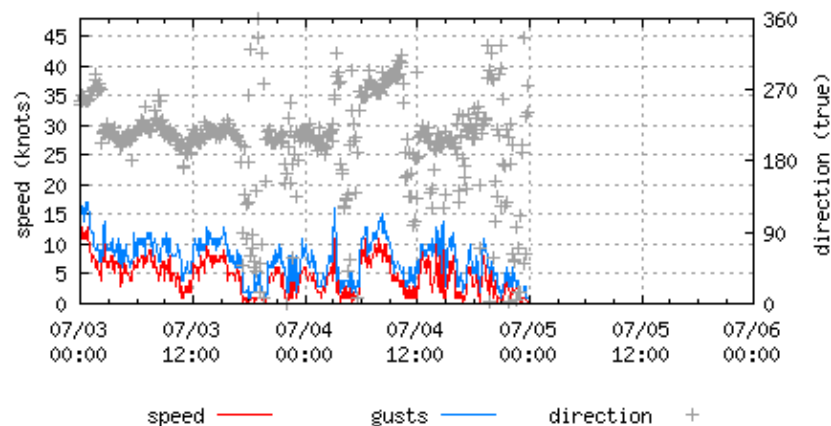
Observed: -11.62 ft. Predicted: -11.80 ft. Residual: 0.18 ft.

Historical Maximum Water Level: Oct 28 2011, 3.64 ft.

Next High Tide: 07/05/2014 04:40 (EDT), -1.75 ft.

NOAA/NOS/CO-OPS 8411060 Cutler Farris Wharf, ME

Wind Speed / Gusts / Direction

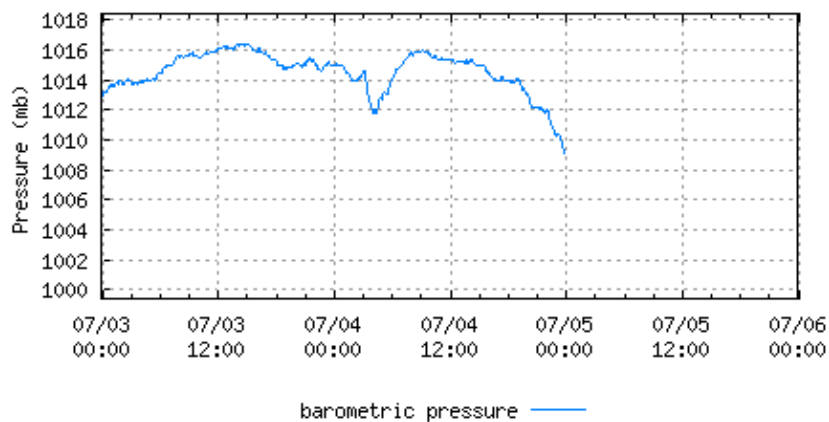


Last Observed Sample: 07/04/2014 23:48 (EDT)

Wind Speed: 0 knots Gusts: 1 knots Direction: 242° T

NOAA/NOS/CO-OPS 8411060 Cutler Farris Wharf, ME

Barometric Pressure

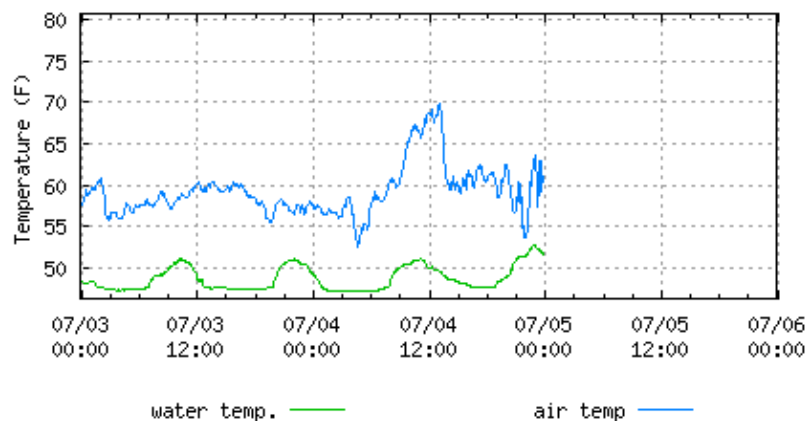


Last Observed Sample: 07/04/2014 23:48 (EDT)

Barometric Pressure: 1009.1 mb

NOAA/NOS/CO-OPS 8411060 Cutler Farris Wharf, ME

Air / Water Temperature

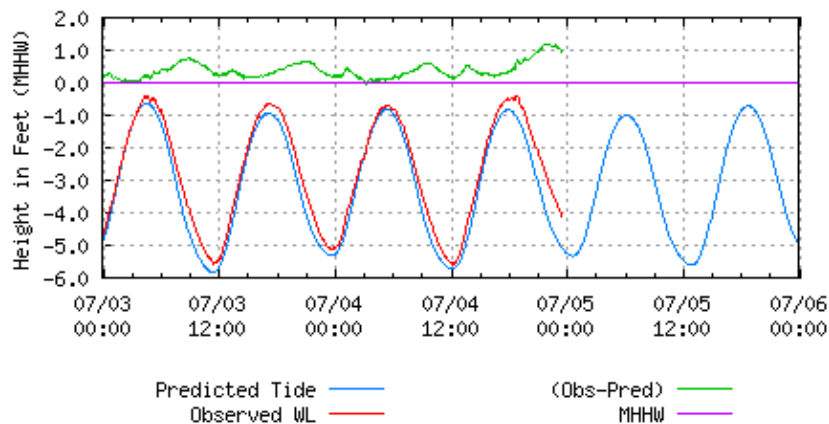


Last Observed Sample: 07/04/2014 23:48 (EDT)

Water Temperature: 51.6° F Air Temperature: 61.0° F

NOAA/NOS/CO-OPS 8447435 Chatham, MA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



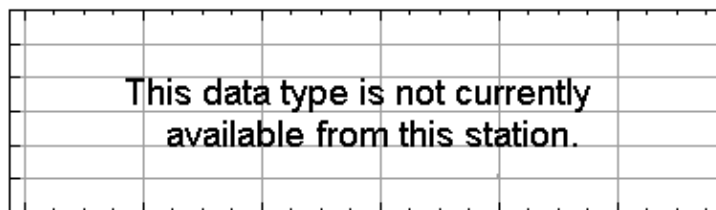
Last Observed Sample: 07/04/2014 23:24 (EDT). Data relative to MHHW

Observed: -4.12 ft. Predicted: -5.07 ft. Residual: 0.95 ft.

Historical Maximum Water Level: Feb 26 2010, 2.96 ft.

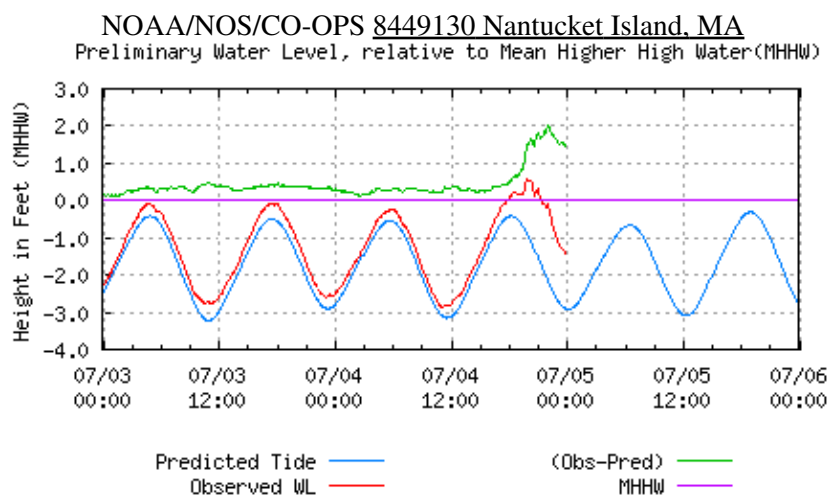
Next High Tide: 07/05/2014 06:06 (EDT), -1.00 ft.

NOAA/NOS/CO-OPS 8447435 Chatham, MA
NOAA/NOS/CO-OPS



Last Observed Sample: 07/04/2014 23:24 (EDT)

Wind Speed: n/a Gusts: n/a Direction: n/a



Last Observed Sample: 07/04/2014 23:48 (EDT). Data relative to MHHW

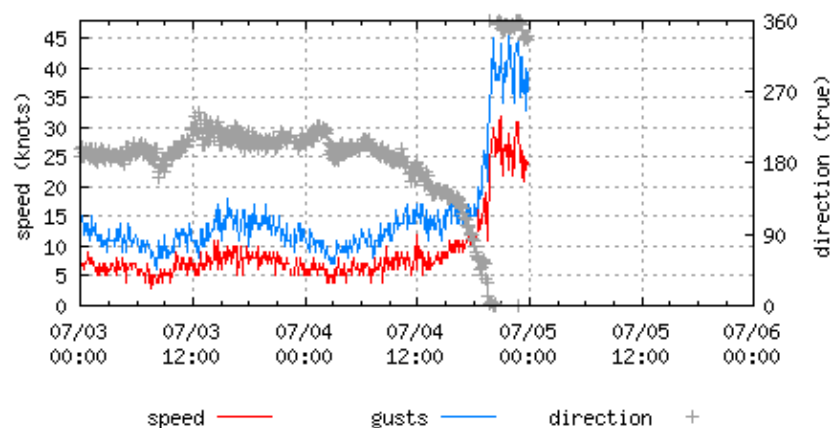
Observed: -1.44 ft. Predicted: -2.91 ft. Residual: 1.47 ft.

Historical Maximum Water Level: Oct 30 1991, 4.29 ft.

Next High Tide: 07/05/2014 06:27 (EDT), -0.66 ft.

NOAA/NOS/CO-OPS 8449130 Nantucket Island, MA

Wind Speed / Gusts / Direction

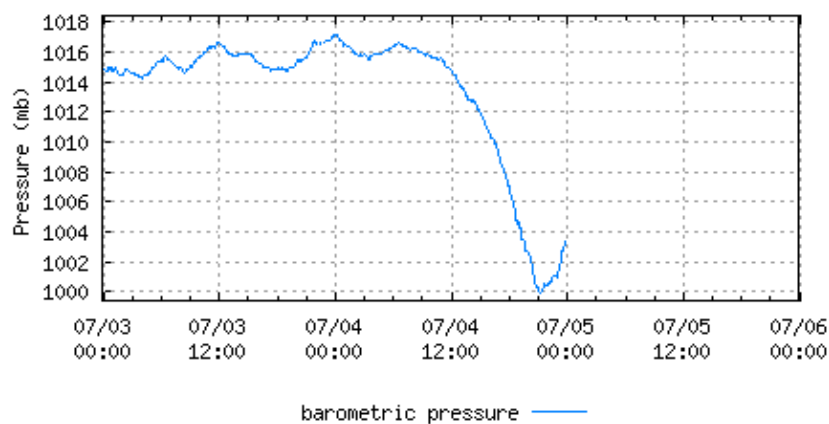


Last Observed Sample: 07/04/2014 23:48 (EDT)

Wind Speed: 24 knots Gusts: 36 knots Direction: 341° T

NOAA/NOS/CO-OPS 8449130 Nantucket Island, MA

Barometric Pressure

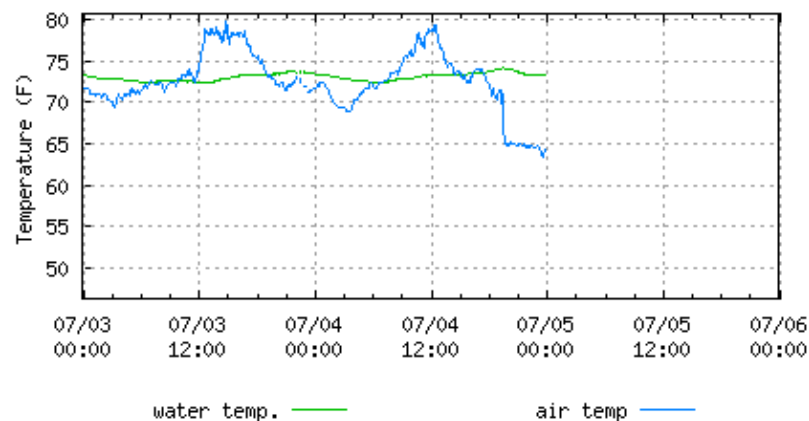


Last Observed Sample: 07/04/2014 23:48 (EDT)

Barometric Pressure: 1003.3 mb

NOAA/NOS/CO-OPS 8449130 Nantucket Island, MA

Air / Water Temperature

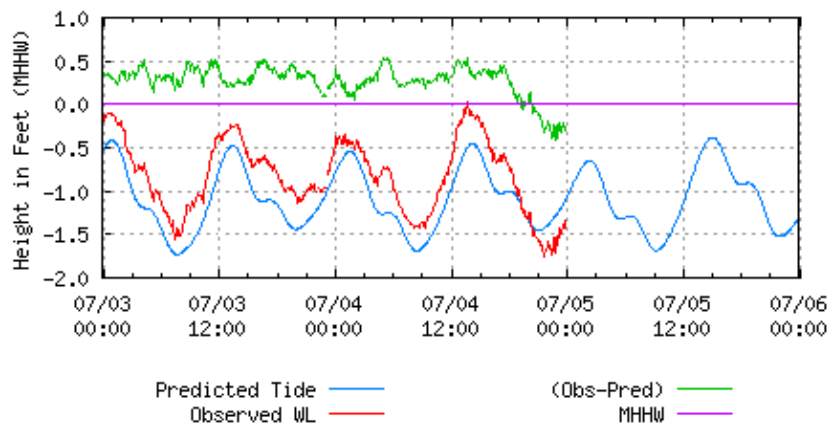


Last Observed Sample: 07/04/2014 23:48 (EDT)

Water Temperature: 73.4° F Air Temperature: 64.4° F

NOAA/NOS/CO-OPS 8447930 Woods Hole, MA

Preliminary Water Level, relative to Mean Higher High Water(MHHW)



Last Observed Sample: 07/04/2014 23:48 (EDT). Data relative to MHHW

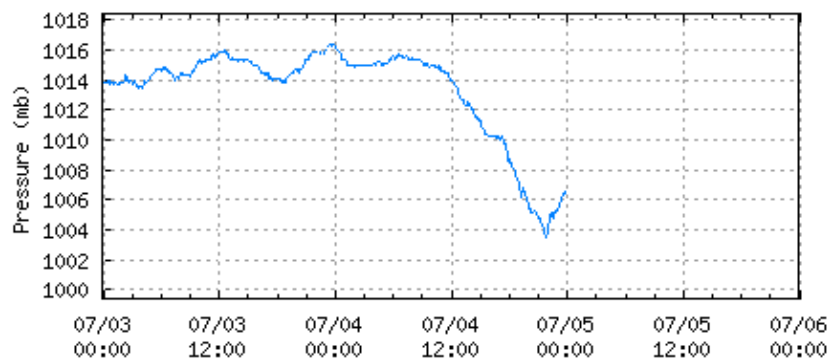
Observed: -1.34 ft. Predicted: -1.09 ft. Residual: -0.25 ft.

Historical Maximum Water Level: Sep 21 1938, 8.58 ft.

Next High Tide: 07/05/2014 02:19 (EDT), -0.66 ft.

NOAA/NOS/CO-OPS 8447930 Woods Hole, MA

Barometric Pressure



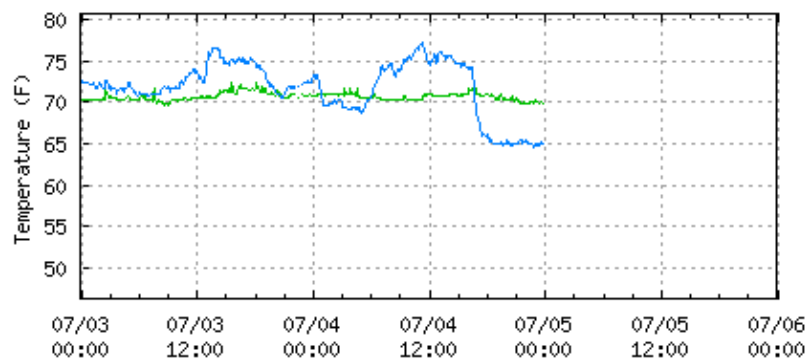
barometric pressure —

Last Observed Sample: 07/04/2014 23:48 (EDT)

Barometric Pressure: 1006.5 mb

NOAA/NOS/CO-OPS 8447930 Woods Hole, MA

Air / Water Temperature

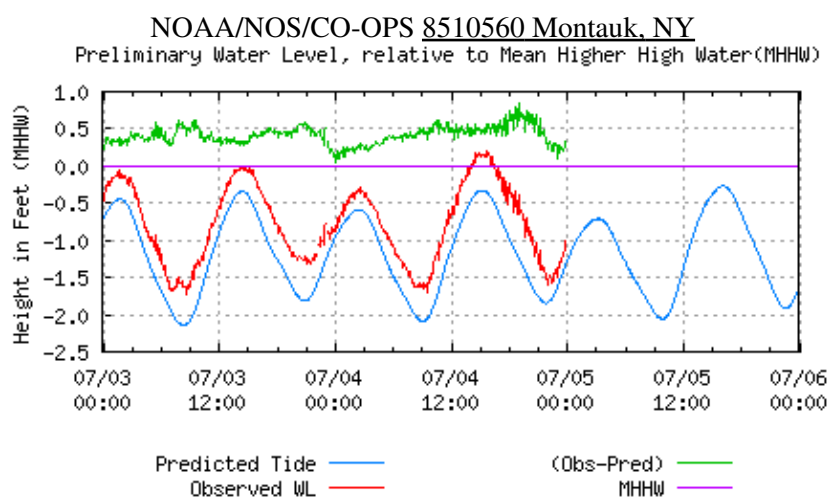


water temp. —

air temp —

Last Observed Sample: 07/04/2014 23:48 (EDT)

Water Temperature: 69.8° F Air Temperature: 65.1° F

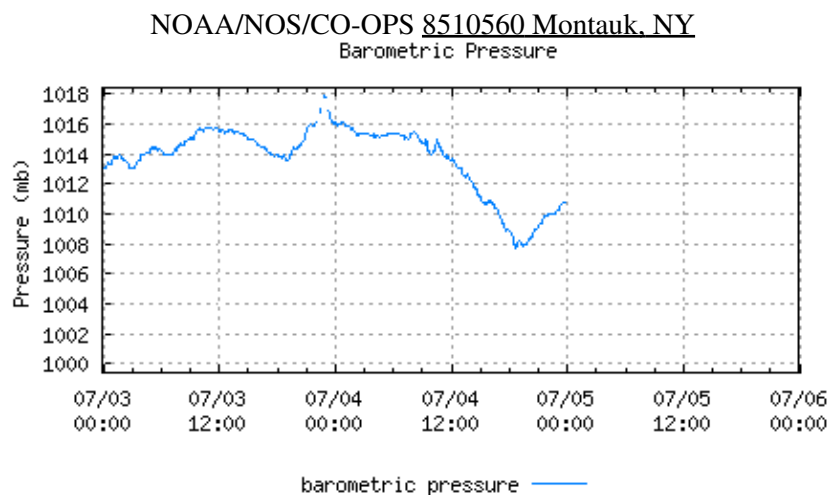


Last Observed Sample: 07/04/2014 23:48 (EDT). Data relative to MHHW

Observed: -1.01 ft. Predicted: -1.34 ft. Residual: 0.33 ft.

Historical Maximum Water Level: Aug 31 1954, 5.91 ft.

Next High Tide: 07/05/2014 03:13 (EDT), -0.71 ft.

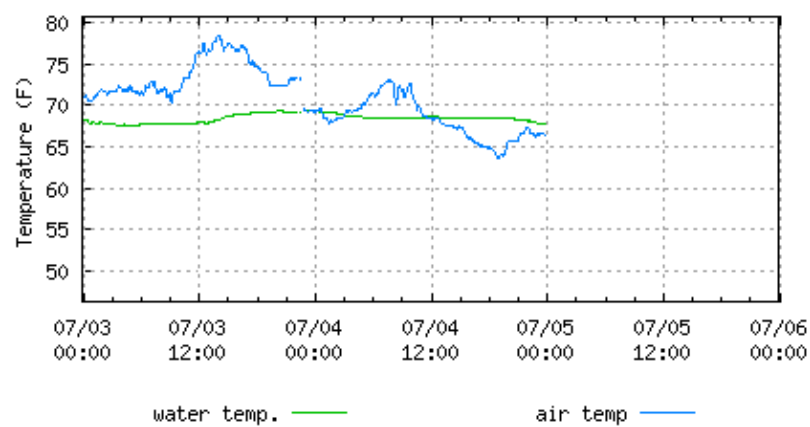


Last Observed Sample: 07/04/2014 23:48 (EDT)

Barometric Pressure: 1010.8 mb

NOAA/NOS/CO-OPS 8510560 Montauk, NY

Air / Water Temperature



Last Observed Sample: 07/04/2014 23:48 (EDT)

Water Temperature: 67.8° F Air Temperature: 66.4° F

Hurricane ARTHUR QuickLook, POSTED 00:00 EDT 07/05/2014

Latest Water Level Observations on MHHW

Station ID	Station Name	Date/Time	Observed Water Level	Predicted Tide	Residual Water Level	24 Hour Maximum Storm Tide
8411060	Cutler Farris Wharf, ME	07/04/2014 23:48 (EDT)	-11.62 ft	-11.80 ft	0.18 ft	-0.91 ft
8447435	Chatham, MA	07/04/2014 23:24 (EDT)	-4.12 ft	-5.07 ft	0.95 ft	-0.39 ft
8449130	Nantucket Island, MA	07/04/2014 23:48 (EDT)	-1.44 ft	-2.91 ft	1.47 ft	0.58 ft
8447930	Woods Hole, MA	07/04/2014 23:48 (EDT)	-1.34 ft	-1.09 ft	-0.25 ft	0.04 ft
8510560	Montauk, NY	07/04/2014 23:48 (EDT)	-1.01 ft	-1.34 ft	0.33 ft	0.21 ft

Center for Operational Oceanographic Products & Services (CO-OPS) | National Ocean Service (NOS)
National Oceanic and Atmospheric Administration | U.S. Department of Commerce